## **IN THE CLAIMS**

This listing of claims will replace all prior versions and listings of claims in the application.

## **Listing of Claims**:

1. (Currently Amended) An optical fiber for irradiation-light transfer for exiting from an exit terminal thereof irradiation light incident from an incidence terminal thereof, comprising:

an annular portion formed by bending an intermediate region thereof of the optical fiber in an annular shape; and

a fixing member for fixing and bundling at least two portions of the optical fiber at a crossing zone of the annular portion two portions,

wherein the fixing member provided at the crossing zone is configured to adjust a radius of the annular shape.

- 2. (Currently Amended) An optical fiber for irradiation-light transfer for exiting from an exit terminal thereof irradiation light incident from an incidence terminal thereof, comprising:
- a partial annular portion formed by partially bending an intermediate region thereof of the optical fiber in an arc annular shape; and
- a fixing member for fixing and bundling at least two portions of the optical fiber at a crossing zone of the partial annular portion the two portions,

wherein the fixing member provided at the crossing zone is configured to adjust a radius of the arc shape.

3. (Currently Amended) An optical fiber for irradiation-light transfer for exiting from an exit terminal thereof irradiation light incident from an incidence terminal thereof, comprising:

<u>a plurality of partial annular portions formed continuously or intermittently by partially</u> bending [[an]] intermediate <u>region thereof regions of the optical fiber</u> in an <u>annular arc</u> shape, the <u>plurality of partial annular portions are fixed on a member</u>.

- 4. (Currently Amended) An optical fiber for irradiation-light transfer for exiting from an exit terminal thereof irradiation light incident from an incidence terminal thereof, comprising:
  an intermediate region thereof of the optical fiber being formed in a spiral shape around a bar. is formed in a three-dimensional shape.
- 5. (Currently Amended) The optical fiber for irradiation-light according to claim 4, wherein the irradiation light from a plurality of power sources is incident from the incidence terminal. the intermediate region is formed in a spiral shape.
- 6. (Currently Amended) The optical fiber for irradiation-light according to any one of claims 1 to [[5]] 3, wherein

the irradiation light from a plurality of power sources is incident from the incidence terminal.

7. (Currently Amended) The optical fiber for irradiation-light according to claim 6, comprising:

wherein the optical fiber consists of a single large diameter optical fiber element.

8. (Currently Amended) The optical fiber for irradiation-light transfer according to claim 7,

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wherein

a bundle an optical fiber bundle which includes a plurality of optical fiber elements is coupled with the incidence terminal.

9. (Currently Amended) The optical fiber for irradiation-light transfer according to claim [[8]] 5, wherein

the optical fiber consists of a single large diameter optical fiber element. the radius of eurvature at the annular portion is adjustable.

10. (Currently Amended) The optical fiber for irradiation-light transfer according to claim [[9]] 8, wherein

the radius of curvature at the annular portion <u>or the partial annular portion</u> is fifty or more times as large as the diameter of the <u>optical</u> fiber.

11. (Currently Amended) The optical fiber for irradiation-light transfer according to claim 10, wherein

the radius of curvature at the annular portion or the partial annular portion is 75 mm or less.

- 12. (Original) The optical fiber for irradiation-light transfer according to claim 1, wherein twice or more wound is formed at the annular portion.
- 13. (Currently Amended) A light irradiation device comprising:

a light source;

an optical fiber for transferring irradiation light from the light source; and the optical fiber for irradiation-light transfer according to claim 11.

14. (Currently Amended) The light irradiation device according to claim 13, further comprising a case,

wherein the optical fiber for irradiation-light transfer is provided inside a case.

15. (Currently Amended) The light irradiation device according to claim 13, further comprising a case,

wherein the optical fiber for irradiation-light transfer is provided outside a case.

- 16. (New) The optical fiber for irradiation-light transfer according to claim 9, wherein an optical fiber bundle which includes a plurality of optical fiber elements is coupled with the incidence terminal.
- 17. (New) A light irradiation device comprising:

a light source;

an optical fiber for transferring irradiation light from the light source; and the optical fiber for irradiation-light transfer according to claim 16.

18. (New) The light irradiation device according to claim 17, further comprising a case, wherein the optical fiber for irradiation-light transfer is provided inside a case.

19. (New) The light irradiation device according to claim 17, further comprising a case, wherein the optical fiber for irradiation-light transfer is provided outside a case.